

# **TOMATOES AND PEPPERS**

## General Information

### GENERAL INFORMATION

Bion 50WG is a selective, non-pesticidal systemic compound used for the control of several listed fungal, bacterial, and viral plant diseases. Bion 50WG is an inducer of host plant resistance. Bion 50WG exhibits a unique mode of action which mimics the natural systemic activated resistance (SAR) response found in most plant species. Bion 50WG has no direct activity against target pathogens.

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THE LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.**

### GENERAL USE INSTRUCTIONS

Integrated Pest Management (IPM): Bion 50WG should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for additional IPM strategies established for your area.

### Resistance Management

Bion 50WG exhibits a mode of action uniquely different from currently available fungicides and bactericides. Since Bion 50WG has no direct activity on plant pathogens, the likelihood that resistance (insensitivity) will develop in the pathogens is low. However, plant pathogens are known to develop tolerance to host plant resistance and to products used repeatedly for control. Because insensitivity development cannot be fully predicted, the use of this product should conform to sensitivity management strategies established for the crop and use area. Such strategies may include rotating and/or tank mixing with products with different modes of action as well as the use of good cultural practices. Consult your local pest control advisor or extension office for details. If insensitivity to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If you experience difficulty with control, and insensitivity is a likely cause, consult your local Syngenta Crop Protection

representative, local agricultural extension office, or pest control advisor for the best alternative method of control. Syngenta encourages responsible product stewardship to ensure effective long-term disease control.

**Crop Tolerance:** Although plant tolerance has been found to be acceptable for all crops on the label, not all possible tank-mix combinations have been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of the crop to ensure that a phytotoxic response will not occur as a result of application.

Limitations, Restrictions, and Exceptions

## APPLICATION INSTRUCTIONS

### Mechanical Drip System for Transplant Production

Application of Bion 50WG into seeded transplant trays:

Bion 50WG can be applied into individual transplant tray cells containing seed using a mechanical drip system (e.g., the PHYTO-DRIP application system) with the appropriate dilution of Bion 50WG in water or water mixed with other products registered to be applied using this method.

Bion 50WG may be applied to the transplant tray cells before or after the seeds are covered with soil media but before the trays are watered.

The mechanical drip system must be calibrated so that each cell in the tray receives the prescribed dose rate of Bion 50WG. For calibration of the drip system consult with Syngenta or the equipment manufacturer.

The Bion 50WG application solution should be applied at an application volume of not less than 0.1 mL per cell and not greater than 1 mL per cell.

The application pressure should be low enough to prevent the application solution from splashing out of the cell to which it is applied during the application process.

### Remarks

Apply Bion 50WG using a mechanical drip system (e.g., the PHYTO-DRIP application system) specifically designed to apply a droplet of the correct Bion 50WG concentration directly to each cell in a tray. Bion 50WG must be applied at the time

of sowing after the seed is placed in each cell. It may be applied before or after it is covered with soil media but must be applied before any water is applied for germination. The precise rate is determined based on crop, variety, disease pressure, and crop safety. Transplant trays must not be watered with an amount that results in water running out of the bottom of the tray.

## PRECAUTIONS

- Apply at recommended rates that are deemed efficacious and safe on pepper and tomatoes. It is highly recommended to use seed that is suited for transplant production. When treating new varieties, confirm safety by treating a few trays and evaluating growth and development of the transplants. Good seed quality is important.
- Growth medium used for germinating seed, fertilizer or nutrient added, water source and water properties, transplant material structures, prevailing conditions of temperature and humidity in transplant seedling production may impact the performance of Bion 50 WG. Prior to using Bion 50WG via a mechanical drip system make sure that these conditions and procedures are compatible.
- Local soil, greenhouse and environmental conditions can affect the degree and longevity of the effect of Bion 50WG.

## Method

### [Drip Irrigation](#)

#### Rates

### [field rates 0](#)

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#### Restricted Entry Interval

12 hours

#### Timings

[At the time of sowing after the seed is placed in each cell.](#)